M.R.O. 1—77,006—8-6-37.

(1) Number of pages 14

(2) Date of repair 12-5-44

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Publicworks DEPARTMENT.

G.O. No. 651 120-121 Press ~~Mis.~~

Dated 6-3 1871.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 6th March 1871.

No. 120. Read the following letter from the Executive Engineer on special duty, Madura District, to the Chief Engineer for Irrigation, dated Madura, 11th February 1871, No. 370:—

1 Register of Rain-fall, etc., at the Perryaur camp.
1 Diagram.

I HAVE the honour to submit the annexed report showing the progress made with the Perryaur investigations during January 1871.

2. The contour of the rock on the right bank of the Perryaur, adjacent to sites 2 and 3, has been carefully ascertained, and I feel confident the information collected will admit of the tunnels being aligned with great accuracy.

3. The detailed examination of the 248-feet saddle has also been completed.

4. Considerable progress has been made with the trial pits necessary to prove that the required soil for a bund at No. 2, or at No. 3, site can be procured within a reasonable distance.

5. The Chinna Mullayaur and the stream that falls into the Perryaur about 3 miles south of the Mullayaur Tavalum were inspected to ascertain the volume of water available for the silting process; the discharge of the former, on the 2nd January, was about 5 cubic feet per second. On the 30th of this month the latter was discharging 23 cubic feet per second.

6. The survey of the branch channels and the preparation of the fair plans for the works on the north of the Vigay have been steadily proceeded with.

7. The register and diagram showing the rain-fall at the Perryaur camp and the discharge of the Perryaur during January 1871 are enclosed.

8. The subjoined abstract shows the levelling and surveying done during the month under review:—

Lineal miles of country surveyed.	Levelling operations. Aggregate length of longitudinal and transverse sections in miles.	Number of permanent bench-marks fixed.
79½	68	11

PERRYAUR PROJECT.

Table of Rain-fall and Discharge of Perryaur during the month of January 1871.

Date.	Rain-fall at Perryaur Camp.	Hour.	Water level.	Discharge.	
				Cubic feet per second.	1,000 Cubic yards per day.
JANUARY.	INCHES.		FEET.		
1st	0·00	6 A. M.	0·00	328	1,050
2nd	0·05	6 A. M.	0·10	308	986
3rd	0·02	6 A. M.	0·16	296	947
4th	0·00	6 A. M.	0·10	308	986
5th	0·00	6 A. M.	0·20	289	929
6th	0·00	6 A. M.	0·30	269	861
7th	0·00	6 A. M.	0·35	259	829
8th	C·00	6 A. M.	0·39	251	803

Table of Rain-fall and Discharge of Perryaur, etc.—(Continued.)

Date.	Rain-fall at Perryaur Camp.	Hour.	Water level.	Discharge.	
				Cubic feet per second.	1,000 Cubic yards per day.
January.	Inches.		Feet.		
9th	0·00	6 A. M.	0·40	249	797
10th	0·33	6 A. M.	0·42	245	784
11th	0·20	6 A. M.	0 50	451	2,410
		12 NOON.	1·10	669	
		6 P. M.	2 00	1,139	
		Mid.	1·52	855	602
12th	0·89	6 A. M.	1·05	649	
		9 A. M.	2·07	1,187	367
		12 NOON.	3·51	2,055	648
		3 P. M.	3·12	1,806	772
		6 P. M.	3·04	1,761	713
		9 P. M.	4·46	2,935	939
		Mid.	6·91	5,549	1,697
13th	0·40	6 A. M.	4·72	3,201	3,500
		9 A. M.	4·50	2,972	1,235
		12 NOON.	4·40	2,872	1,169
		3 P. M.	3·97	2,431	1,061
		6 P. M.	3·51	2,055	897
		9 P. M.	3·10	1,794	770
		Mid.	5·20	3,668	1,092
14th	0·12	3 A. M.	10·65	10,828	2,899
		6 A. M.	7·30	6,025	3,370
		9 A. M.	6·61	5,226	2,250
		12 NOON.	5 20	3,668	1,779
		3 P. M.	4·46	2,935	1,321
		6 P. M.	3·79	2,270	1,041
		Mid.	3·20	1,853	1,649
15th	0·17	6 A. M.	4·72	3,201	2,022
		9 A. M.	4·50	2,976	1,235
		12 NOON.	3·88	2,348	1,065
		3 P. M.	4·36	2,830	1,036
		6 P. M.	5·61	4,085	1,383
		9 P. M.	5·61	4,085	1,634
		Mid.	4·98	3,452	1,507
16th	0·16	6 A. M.	3·20	1,853	2,122
		12 NOON.	2·60	1,514	1,347
		6 P. M.	2·40	1,398	1,165
		Mid.	2·26	1,312	1,084
17th	0·00	6 A. M.	1·75	981	2,922
		6 P. M.	1·50	845	
18th	0·00	6 A. M.	1·10	669	2,141
		6 P. M.	1·10		
		Mid.	1·10	669	......
19th	0·08	3 A. M.	6·09	4,596	1,053
		6 A. M.	5·29	3,760	1,671
		9 A. M.	4·01	2,456	1,243
		12 NOON.	2·75	1,602	812
		6 P. M.	2·05	1,173	1,110
		Mid.	3 20	1,856	1,212
20th	0·00	6 A. M.	2·75	1,602	4,282
		6 P. M.	1·90	1,074	
21st	0·00	6 A. M.	1·75	981	2,773
		6 P. M.	1·30	752	
22nd	0·00	6 A. M.	1·05	649	1,936
		6 P. M.	0·82	561	
23rd	0·00	6 A. M.	0·75	536	1,664
		6 P. M.	0·66	504	

Table of Rain-fall and Discharge of Perryaur, etc.—(Concluded.)

Date.	Rain-fall at Perryaur Camp.	Hour.	Water level.	DISCHARGE.	
				Cubic feet per second.	1,000 Cubic yards per day.
JANUARY.	INCHES.		FEET.		
24th	0·00	6 A. M.	0·42	426	1,363
25th	0·26	6 A. M.	0·35	408	1,305
		MID.	0·48	444	......
26th	0·02	6 A. M.	1·75	981	570
		9 A. M.	3·30	1,915	579
		12 NOON.	3·40	1,978	779
		6 P. M.	2·20	1,277	1,302
		MID.	2·00	1,139	966
27th	0·00	6 A. M.	4·15	2,512	1,460
		9 A. M.	3·79	2,270	956
		12 NOON.	2·75	1,602	774
		6 P. M.	2·40	1,398	1,200
		MID.	2·20	1,277	1,070
28th	0·00	6 A. M.	1·75	981	2,938
		6 P. M.	1·52	855	
29th	0·00	6 A. M.	1·05	649	1,936
		6 P. M.	0·82	561	
30th	0·00	6 A. M.	0·69	515	1,648
31st	0·00	6 A. M.	0·50	451	1,443
Total...	2·70	......	......	......	99,861

Depth run off from Catchment Basin of 250 square miles = 4·64 inches.

Mean Discharge ... { 3,221,322 Cubic yards per day.
134,221 ,, ,, per hour.
1,006 ,, feet per second.

	Cubic yards.
Discharge of Perryaur in January 1871	99,861,000
Do. of do. in do. 1870	56,184,000
Difference—Excess in January 1871 ...	43,677,000

(Signed) R. SMITH,
Executive Engr. on special duty.

MADURA,
11*th February* 1871.

No. 121. ORDER THEREON, 6th March 1871, No. 651.

IRRIGATION, No. 5.

ORDERED to be recorded.

(True Extract.)

Major, R.E.,
Joint-Secretary to Government.

To the Chief Engineer for Irrigation.
To Mr. R. Smith.
To the Superintending Engineer, 8th Division.

Exd. E. C. Shunker.

Govt. of {1871} Madras.

PUBLIC WORKS.

To

THE CHIEF ENGINEER FOR IRRIGATION.

&c., &c., &c.

Dated March 6th.

Encl. *Recd.*

G. O., 6th March 1871, *No.* 651.

MARCH
Nos. 120-121

Perryaur Project.—Report submitted by the Executive Engineer on special duty, Madura, of the progress made with the investigation of the Perryaur project during January 1871, recorded.

Enclosure No. 1 in a Letter from the Executive Engineer On Special duty Madura District, dated 11th February 1871.

No. 340.

To The Chief Engineer for Irrigation. **Madras**.

PW 77/71

Perryaur Project

Table of Rain-fall and discharge of Perryaur during the month of January 1871

Perryaur Project

Table of Rainfall and Discharge of Perryaur during the month of January 1871

Date	Rainfall at Perryaur Camp (Inches)	Hour	Water level (feet)	Discharge: Cubic feet per second	Discharge: 1000 Cubic yards per day
January 1st	0.00	6 a.m.	0.00	328	1,050
" 2d	0.05	6 a.m.	0.10	308	986
" 3d	0.02	6 a.m.	0.16	296	947
" 4	0.00	6 a.m.	0.10	308	986
" 5	0.00	6 a.m.	0.20	289	929
" 6	0.00	6 a.m.	0.30	269	861
" 7	0.00	6 a.m.	0.35	259	829
" 8	0.00	6 a.m.	0.39	251	803
" 9	0.00	6 a.m.	0.40	249	797
" 10	0.33	6 a.m.	0.42	245	784
" 11	0.20	6 a.m.	0.50	451	
		12 noon	1.10	669	2,410
		6 p.m.	2.00	1,139	
		Mid.	1.52	855	602
" 12	0.89	6 a.m.	1.05	649	367
		9 a.m.	2.07	1,187	648
		12 noon	3.51	2,055	772
		3 p.m.	3.12	1,806	713
		6 p.m.	3.04	1,761	939
		9 p.m.	4.46	2935	1,697
		Mid.	6.91	5,549	3,500
" 13	0.40	6 a.m.	4.72	3,201	1,235
		9 a.m.	4.50	2,972	1,169
		12 noon	4.40	2,872	1,061
		3 p.m.	3.97	2431	897
		6 p.m.	3.51	2055	770
		9 p.m.	3.10	1794	1,092
		Mid.	5.20	3,668	2,899
" 14	0.12	3 a.m.	10.65	10,828	3,370
		6 a.m.	7.30	6,025	2,250
		9 a.m.	6.64	5,226	1,779
		12 noon	5.20	3,668	1,321
		3 p.m.	4.46	2,935	1,041
		6 p.m.	3.79	2,270	1,649
		Mid.	3.20	1,853	

Date	Rainfall at Perryaur Camp (Inches)	Hours	Water level (feet)	Discharge: Cubic feet per second	Discharge: 1000 Cubic yards per day
					2,022
January 15	0.17	6 a.m.	4.72	3,201	1,235
		9 a.m.	4.50	2,979	1,065
		12 noon	3.88	2348	1,036
		3 p.m.	4.36	2,830	1,383
		6 p.m.	5.61	4085	1,634
		9 p.m.	5.61	4,085	1,507
		Mid.	4.98	3,432	2,122
" 16	0.16	6 a.m.	3.20	1,853	1,347
		12 noon	2.60	1,514	1,165
		6 p.m.	2.40	1,398	1,084
		Mid.	2.26	1,312	
" 17	0.00	6 a.m.	1.75	981	2922
		6 p.m.	1.50	845	
" 18	0.00	6 a.m.	1.10	669	2,141
		6 p.m.	1.10		
		Mid.	1.10	669	1,053
" 19	0.08	3 a.m.	6.09	4,596	1,671
		6 a.m.	5.29	3,760	1,243
		9 a.m.	4.01	2,456	812
		12 noon	2.75	1,602	1,110
		6 p.m.	2.05	1,173	1,212
		Mid.	3.20	1,856	
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		6 p.m.	1.90	1,074	
" 21	0.00	6 a.m.	1.75	981	2,773
		6 p.m.	1.30	752	
" 22	0.00	6 a.m.	1.05	649	1,936
		6 p.m.	0.82	561	
" 23	0.00	6 a.m.	0.75	536	1,664
		6 p.m.	0.66	504	
" 24	0.00	6 a.m.	0.42	426	1,363
" 25	0.26	6 a.m.	0.35	408	1,305
		Mid.	0.48	444	570
" 26	0.02	6 a.m.	1.75	981	579
		9 a.m.	3.30	1,915	779
		12 noon	3.40	1,978	1,302
		6 p.m.	2.20	1,277	966
		Mid.	2.00	1,139	1,460
" 27	0.00	6 a.m.	4.15	2,512	956
		9 a.m.	3.79	2,270	774
		12 noon	2.75	1,602	1,200
		6 p.m.	2.40	1,398	1,070
		Mid.	2.20	1,277	
" 28	0.00	6 a.m.	1.75	981	[illegible]
		6 p.m.	1.32	855	
" 29	0.00	6 a.m.	1.05	649	1,936
		6 p.m.	0.82	561	
" 30	0.00	6 a.m.	0.69	515	1,648
" 31	0.00	6 a.m.	0.50	451	1443
Total Inches	2.70.			Total	99,861 cyds

Depth run off from Catchment Basin of 250 square miles = 4·64 inches.

Mean Discharge { 3221,322 Cubic yards per day. / 134,221 " " per hour. / 1,000 " feet per second

		Cubic yards.
Discharge of Perryaur in January	1871	99,861,000
Discharge of — Do — in January	1870	56,184,000
Difference — excess in January 1871		43,677,000

Special Ex: Engr Office Madura 11th February 1871. } Compd. [initials]

[signature]

Executive Engineer On Special duty Madura District

No. 370 Special Executive Engineer's Office
Madura 11th February 1871.

From,

R. Smith Esquire
Executive Engineer, On Special duty
Madura District

To,

Major J. Mullins R.E.
Chief Engineer, for Irrigation
Madras

Enclosures. 2.
Register of Rainfall &c. at the Perryaur Camp.
Diagram.

Sir,

I have the honor to submit the annexed Report showing the progress made, with the Perryaur investigations, during January 1871. –

2. The Contour of the rock, on the right bank of the Perryaur, adjacent to sites 2 and 3, has been carefully ascertained and I feel confident the information collected will admit of the Tunnels being aligned with great accuracy –

3. The detailed examination of the 248' saddle has also been Completed.

4

4. Considerable progress has been made with the trial pits necessary to prove that the required soil for a bund at No. 2, or at No. 3, site can be procured within a reasonable distance. —

5. The Chinna Mullayaur and the stream that falls into the Perryaur, about 3 miles South of the Millayaur Tavalum, were inspected to ascertain the volume of water available for the silting process; the discharge of the former, on the 2d January, was about 5 Cubic feet per second - On the 30th of this month the latter was discharging 23 Cubic feet per second. —

6. The survey of the Branch Channels and the preparation of the fair plans, for the works on the North of the Vigay, have been steadily proceeded with. —

7. The register and diagram showing the rainfall at the Perryaur

Camp

No. 5.

Pro: of Govt for March Public Works
31. Jany 1871
Received 2^d March/71

The
Letter to Fort St. George

No. 2.

Passing orders on the Petition of T. Ponniah Moodelly, late a Talook Overseer in the Tanjore District –

No. 662 – 6 March/71

No. 141

2

Camp, and the discharge of the Perryaur, during January 1871, are enclosed. 66

8. The subjoined abstract shows the Levelling and Surveying done during the month under review:-

Lineal miles of Country Surveyed	Levelling Operations	Number of permanent Bench marks Fixed
	Aggregate length of Longitudinal and Transverse Sections in Miles	
$79\frac{1}{2}$	68	11

I have the honor to be
Sir,
Your Most Obedient Servant
[signature]

Executive Engineer
On Special duty
Madura Distt

P.W. 1871 Dept

No. 390
No. 677

From
The Executive Engineer
On Special duty
Madura Dist.

To
The Chief Engineer
for Irrigation
Madras

Dated 11th
Desp. 11th } February 1871
Received 14th

14/2

Enclosures 2

1-E. Red.

Submits the Report shown the progress made with the Periyaur investigations during January 1871. —

No. 651 - 6 March/71

With an adde[illegible]

No. 851

Ordered to be recorded

For Memo[illegible]
6 March/71

[illegible]

M. 14/4/71

[illegible]
Reply 8/3/71

Further Ro. No. 929 D/
29-3-71

No 677

Govt. of {1871} Madras.

PUBLIC WORKS.

To the Chief Engineer for Irrigation

Dated.

Recd.

Encl. 2
1 Plan

G. O. 6 March 71, No. 651.

Nos. 120 & 121

Perryaur Project- Report,

Submitted by the Ex. Engr on Special Duty, Madura, of the progress made with the investigation of the Perryaur Project during Jan/71, recorded.